Author Index

Ahmed, S.
—, and Moffat, J.B.
Oxidative coupling of methane over thallium based silica supported catalysts 241
Ai, M.
Effect of the composition of vanadium–titanium binary phosphate on catalytic performance in vapor-phase aldol condenstation 29
Ay, C.-A., see Wang, I. 257

Baerns, M., see Baranski, A. 111
Bailey, K.M.
—, Campbell, T.K. and Falconer, J.L.
Potassium promotion of Ni/Al_2O_3 catalyst 159
Baranski, A.
—, Hajduk, J., Hess, D. and Baerns, M.
Effect of pressure on the reduction rate of fused iron catalyst for ammonia synthesis 111
Beer, V.H.J. de, see Ramselaar, W.L.T.M. 217
Behrsing, T.
—, Jaeger, H. and Sanders, J.V.
Coke deposits on H-ZSM-5 zeolite 289
Berg-Slot, J.J., see Schaper, H. 79
Boronin, A.I., see Ryndin, Yu.A. 277
Bukhtiyarov, V.I., see Ryndin, Yu. A. 277

Campbell, T.K., see Bailey, K.M. 159
Chen, M.-W., see Wang, I. 257
Coenen, J.W.E.
Characterization of the standard nickel/silica catalyst EuroNi-1. I. Background, aims, organization and outline 59
Coenen, J.W.E.
Characterization of the standard nickel/silica catalyst EuroNi-1. II. Chemical aspects: precipitation, reduction and chemical analysis 65
Craje, M.W.J., see Ramselaar, W.L.T.M. 217

Da Silva, P.N.
—, Guenin, M., Leclercq, C. and Frety, R.
Metallic area of supported iridium catalysts 203
De Beer, V.H.J., see Ramselaar, W.L.T.M. 217
Derouane, E.G., see Dumont, N. L1
Dumont, N.
—, Ito, T. and Derouane, E.G.
^{129}Xe-NMR investigation of SAPO-37 L1

Falconer, J.L., see Bailey, K.M. 159
Fan, C.
—, Wainwright, M.S., Trimm, D.L. and Hoodless, I.M.
Stability of passivated Raney copper catalysts during reduction before use 53
Frety, R., see Da Silva, P.N. 203

Gerkema, E., see Ramselaar, W.L.T.M. 217
Gorte, R.J., see Kofke, T.J.G. 177
Guenin, M., see Da Silva, P.N. 203
Guisnet, M.
— and Magnoux, P.
Coking and deactivation of zeolites influence of the pore structure 1
Guisnet, M., see Lemberton, J.L. 91
Guisnet, M., see Lemberton, J.L. 101

Haiduk, J., see Baranski, A. 111
Hess, D., see Baranski, A. 111
Homeyer, S.T.
— and Sachtler, W.M.H.
Oxidative redispersion of palladium and formation of PdO particles in NaY. An application of high precision TPR 189
Hoodless, I.M., see Fan, C. 53

Ito, T., see Dumont, N. L1

Jabłonski, J.M., see Kepinsky, L. 267
Jaeger, H., see Behrsing, T. 289

Kepiński, L.
—, Wołcyrz, M. and Jałonski, J.M.
Effect of high-temperature reduction on carburization of alumina-supported palladium: evidence for palladium–aluminium alloy formation 267
Kofke, T.J.G.
—, Gorte, R.J. and Kokotailo, G.T.

Determination of framework concentrations of gallium in [GA]-ZSM5 177
Kokotailo, G.T., see Kofke, T.J.G. 177
Kraan, A.M. van der, see Ramselaar, W.L.T.M. 217

Leclerq, C., see Da Silva, P.N. 203
Lee, B.-J., see Wang, I. 257
Lemberton, J.L.
—, Touzeyidio, M. and Guisnet, M.
Catalytic hydroprocessing of simulated coal tars. I. Activity of a sulphided Ni-Mo/Al_2O_3 catalyst for the hydroconversion of model compounds 91
Lemberton, J.L.
—, Touzeyidio, M. and Guisnet, M.
Catalytic hydroprocessing of simulated coal tars. II. Effect of acid catalysts on the hydroconversion of model compounds on a sulphided Ni-Mo/Al_2O_3 catalyst 101
Lemonidou, A.A.
— and Vasalos, I.A.
Preparation and evaluation of catalysts for the production of ethylene via steam cracking. Effects of operating conditions on the performance of $12CaO/7Al_2O_3$ catalyst 119
Lund, C.R.F., see Yarlagadda, P. 139

Magnoux, P., see Guisnet, M. 1
Missen, R.W., see Norval, G.W. 37
Moffat, J.B., see Ahmed, S. 241

Norval, G.W.
—, Phillips, M.J., Missen, R.W. and Smith, W.R.
Calculated equilibria for the alkene and alcohol aromatization processes 37

Phillips, M.J., see Norval, G.W. 37

Ramselaar, W.L.T.M.
—, Crajé, M.W.J., Gerkema, E., De Beer, V.H.J. and Van der Kraan, A.M.
Sulphidation of carbon-supported iron-molybdemum oxide catalysts 217
Ruckenstein, E., see Yarlagadda, P. 139
Ryndin, Yu.A.
—, Stenin, M.W., Boronin, A.I., Bukhtiyarov, V.I. and Zaikovskii, V.I.
Effect of Pd/C dispersion on its catalytic properties in acetylene and vinylacetylene hydrogenation 277

Sachtler, W.M.H., see Homeyer, S.T. 189
Sanders, J.V., see Behrsing, T. 289
Schaper, H.
—, Berg-Slot, J.J. and Stork, W.H.J.
Stabilized magnesia: a novel catalyst (support) material 79
Silva, P.N. da, see Da Silva, P.N. 203
Smith, W.R., see Norval, G.W. 37
Stenin, M.W., see Ryndin, Yu.A. 277
Stork, W.H.J., see Schaper, H. 79

Touzeyidio, M. see Lemberton, J.L. 91
Touzeyidio, M., see Lemberton, J.L. 101
Trimm, D.L., see Fan, C. 53

Van der Kraan, A.M., see Ramselaar, W.L.T.M. 217
Vasalos, I.A., see Lemonidou, A.A. 119

Wainwright, M.S., see Fan, C. 53
Wang, I.
—, Ay, C.-A., Lee, B.-J. and Chen M.-W.
Para-selectivity of dialkylbenzenes over modified HZSM-5 by vapour phase deposition of silica 257
Wołcyrz, M., see kepinsky, L. 267

Yarlagadda, P.
--, Lund, C.R.F. and Ruckenstein, E.
Conversion of methanol to hydrocarbons over silica–alumina. Selective formation of lower olefins 139

Zaikovskii, V.I., see Ryndin, Yu. A. 277

Subject Index

Acetylene hydrogenation
Effect of Pd/C dispersion on its catalytic properties in acetylene and vinylacetylene hydrogenation 277

Acid catalyst
Catalytic hydroprocessing of simulated coal tars. II. Effect of acid catalysts on the hydroconverions of model compounds on a sulphided Ni–Mo/Al_2O_3 catalyst 101

Acid catalyst
Determination of framework concentrations of gallium in [Ga]-ZSM-5 177

Adsorption
Potassium promotion of Ni/Al_2O_3 catalyst 159

Adsorption
Determination of framework concentrations of gallium in [Ga]-ZSM-5 177

Adsorption
Metallic area of supported iridium catalysts 203

Ageing
Coking and deactivation of zeolites – a Review 1

Ageing
Para-selectivity of dialkylbenzenes over modied HZSM-5 by vapour phase deposition of silica 257

Aldol condensation
Effect of the composition of vanadium–titanium binary phosphate on catalytic performance in vapor-phase aldol condensation 29

Alkylaton
Para-selectivity of dialkylbenzenes over modified HZSM-5 by vapour phase deposition of silica 257

Ammonia synthesis
Effect of pressure on the reduction rate of a fused iron catalist for ammonia synthesis 11

Aromatization
Calculated equilibria for the alkene and alcohol aromatization processes 37

Benzene hydrogenation
Metallic area of supported iridium catalysts 203

Calcium oxide/alumina
Preparation and evaluation of catalysts for the production of ethylene via steam cracking. Effect of operating conditions on the performance of $12CaO/7Al_2O_3$ catalyst 119

Carbon monoxide hydrogenation
Potassium promotion of Ni/Al_2O_3 catalysts 159

Carburization
Effect of high-temperature reduction on carburization of alumina-supported palladium: evidence for palladium–aluminium alloy formation 267

Catalyst characterization (surface area, porosity)
Stability of passivated Raney copper catalysts during reduction before use 53

Catalyst characterization (temperature-programmed techniques)
Conversion of methanol to hydrocarbons over silica–alumina. Selective formation of lower olefins 139

Catalyst characterization (Mössbauer spectroscopy)
Sulphidation of carbon-supported iron–molybdenum oxide catalysts 217

Catalyst characterization (^{129}Xe NMR)
^{129}Xe-NMR investigation of SAPO-37 L1

Catalyst characterization (BET, XRD)
Effect of the composition of vanadium–titanium binary phosphate on catalytic performance in vapor-phase aldol condensation 29

Catalyst characterization (BET, XRD)
Preparation and evaluation of catalysts for the production of ethylene via steam cracking. Effect of operating conditions on the performance of $12CaO/7Al_2O_3$ catalyst 119

Catalyst characterization (EM, TPR, XPS, XRD)
Characterization of the standard nickel/silica catalyst EuroNi-1. I. Background, aims, organization oand outline 59

Catalyst characterization (TEM, adsorption)

Metallic area of supported iridium catalysts 203
Catalyst characterization (TEM, XPS)
Effect of Pd/C dispersion on its catalytic properties in acetylene and vinylacetylene hydrogenation 277
Catalyst characterization (TPD)
Determination of framework concentrations of gallium in [Ga]-ZSM-5 177
Catalyst characterization (TPD, TPR)
Potassium promotion of Ni/Al_2O_3 catalysts 159
Catalyst characterization (TPR)
Characterization of the standard nickel/silica catalyst EuroNi-1. II. Chemical aspects: precipitation, reduction and chemical analysis 65
Catalyst characterization (TPR)
Oxidative redispersion of palladium and formation of PdO particles in NaY. An application of high precision TPR 189
Catalyst characterization (XRD)
Effect of high-temperature reduction on carburization of alumina-supported palladium: evidence for palladium–aluminium alloy formation 267
Catalyst preparation (evaporation)
Effect of the composition of vanadium–titanium binary phosphate on catalytic performance in vapor-phase aldol condensation 29
Catalyst preparation (precipitation)
Characterization of the standard nickel/silica catalyst EuroNi-1. I. Background, aims, organization and outline 59
Catalyst preparation (precipitation, reduction)
Characterization of the standard nickel/silica catalyst EuroNi-1. II. Chemical aspects: precipitation, reduction and chemical analysis 65
Catalyst preparation (coprecipitation)
Stabilized magnesia: a novel catalyst (support) material 79
Catalyst preparation (dry mixing)
Preparation and evaluation of catalysts for the production of ethylene via steam cracking. Effect of operating conditions on the performance of $12CaO/7Al_2O_3$ catalyst 119
Catalyst preparation (hydrothermal synthesis)
^{129}Xe-NMR investigation of SAPO-37 L1
Catalyst preparation (incipient wetness)
Sulphidation of carbon-supported iron–molybdenum oxide catalysts 217
Catalyst preparation (ion exchange)
Oxidative redispersion of palladium and formation of PdO particles in NaY. An application of high precision TPR 189
Catalyst preparation (other)
Conversion of methanol to hydrocarbons over silica–alumina. Selective formation of lower olefins 139
Catalyst preparation (promoter addition)
Potassium promotion of Ni/Al_2O_3 catalyst 159
Catalyst preparation (reduction)
Effect of pressure on the reduction rate of a fused iron catalyst for ammonia synthesis 111
Catalyst preparation (surface interaction)
Effect of Pd/C dispersion on its catalytic properties in acetylene and vinylacetylene hydrogenation 277
Catalyst preparation (vapour-phase deposition)
Para-selectivity of dialkylbenzenes over modified HZSM-5 by vapour phase deposition of silica 257
Catalyst preparation (wet impregnation)
Metallic area of supported iridium catalysts 203
Catalyst preparation (wet impregnation)
Oxidative coupling of methane over thallium based silica supported catalysts 241
Catalyst preparation (zeolite synthesis)
Determination of framework concentrations of gallium in [Ga]-ZSM-5 177
Coal tars
Catalytic hydroprocessing of simulated coal tars. I. activity of a sulphided Ni–Mo/Al_2O_3 catalyst for the hydroconversion of model compounds 91
Coal tars
Catalytic hydroprocessing of simulated coal tars. II. Effect of acid catalysts on the hydroconversion of model compounds on a sulphided $Ni–Mo/Al_2O_3$ catalyst 101
Coke formation
Coking and deactivation of zeolites – a Review 1

Coke formation
Catalytic hydroprocessing of simulated coal tars. I. activity of a sulphided Ni-Mo/Al_2O_3 catalyst for the hydroconversion of model compounds 91
Coke formation
Catalytic hydroprocessing of simulated coal tars. II. Effect of acid catalysts on the hydroconversion of model compounds on a sulphided Ni-Mo/Al_2O_3 catalyst 101
Coke formation
Effect of high-temperature reduction on carburization of alumina-supported palladium: evidence for palladium-aluminium alloy formation 267
Coke formation
Coke deposits on H-ZSM-5 zeolite 289
Copper
Stability of passivated Raney copper catalysts during reduction before use 53

Deactivation
Coke deposits on H-ZSM-5 zeolite 289
Disproportionation
Para-selectivity of dialkylbenzenes over modified HZSM-5 by vapour phase deposition of silica 257
Double bond isomerization
Stabilized magnesia: a novel catalyst (support) material 79

Equilibrium calculations
Calculated equilibria for the alkene and alcohol aromatization processes 37
Ethene production
Preparation and evaluation of catalysts for the production of ethylene via steam cracking. Effect of operating conditions on the performance of $12CaO/7Al_2O_3$ catalyst 119
EuroNi-1
Characterization of the standard nickel/silica catalyst EuroNi-1. I. Background, aims, organization and outline 59
EuroNi-1
Characterization of the standard nickel/silica catalyst EuroNi-1. II. Chemical aspects: precipitation, reduction and chemical analysis 65

Fused iron
Effect of pressure on the reduction rate of a fused iron catalyst for ammonia synthesis 111

Gallosilicates
Determination of framework concentrations of gallium in [Ga]-ZSM-5 177

Heptane
Coking and deactivation of zeolites - a Review 1
High-temperature reduction
Effect of high-temperature reduction on carburization of alumina-supported palladium: evidence for palladium-aluminium alloy formation 267
Homogeneous precipitation
Characterization of the standard nickel/silica catalyst EuroNi-1. I. Background, aims, organization and outline 59
Homogeneous precipitation
Characterization of the standard nickel/silica catalyst EuroNi-1. II. Chemical aspects: precipitation, reduction and chemical analysis 65
Hydrocracking
Catalytic hydroprocessing of simulated coal tars. I. activity of a sulphided Ni-Mo/Al_2O_3 catalyst for the hydroconverison of model compounds 91
Hydrocracking
Catalytic hydroprocessing of simulated coal tars. II. Effect of acid catalysts on the hydroconversion of model compounds on a sulphided Ni-Mo/Al_2O_3 catalyst 101

Iridium
Metallic area of supported iridium catalysts 203
Iron-molybdenum sulphide/carbon
Sulphidation of carbon-supported iron-molybdenum oxide catalysts 217

Kinetics
Effect of pressure on the reduction rate of a fused iron catalyst for ammonia synthesis 111
Kinetics
Potassium promotion of Ni/Al_2O_3 catalysts 159
Kinetics
Determination of framework concentra-

tions of gallium in [Ga]-ZSM-5 177
Kinetics
Oxidative coupling of methane over thallium based silica supported catalysts 241

Methane oxidative coupling
Oxidative coupling of methane over thallium based silica supported catalysts 241
Methanol conversion
Conversion of methanol to hydrocarbons over silica-alumina. Selective formation of lower olefins 139
Methanol conversion
Coke deposits on H-ZSM-5 zeolite 289
Model compounds
Catalytic hydroprocessing of simulated coal tars. I. activity of a sulphided Ni-Mo/Al_2O_3 catalyst for the hydroconversion of model compounds 91
Model compounds
Catalytic hydroprocessing of simulated coal tars. II. Effect of acid catalysts on the hydroconversion of model compounds on a sulphided Ni-Mo/Al_2O_3 catalyst 101

Nickel-molybdenum sulphides
Catalytic hydroprocessing of simulated coal tars. I. activity of a sulphided Ni-Mo/Al_2O_3 catalyst for the hydroconversion of model compounds 91
Nickel-molybdenum sulphides
Catalytic hydroprocessing of simulated coal tars. II. Effect of acid catalysts on the hydroconversion of model compounds on a sulphided Ni-Mo/Al_2O_3 catalyst 101
Nickel/alumina
Potassium promotion of Ni/Al_2O_3 catalysts 159
Nickel/silica
Characterization of the standard nickel/silica catalyst EuroNi-1. I. Background, aims, organization and outline 59
Nickel/silica
Characterization of the standard nickel/silica catalyst EuroNi-1. II. Chemical aspects: precipitation, reduction and chemical analysis 65

Oxidative coupling
Oxidative coupling of methane over thallium based silica supported catalysts 241

Palladium
Oxidative redispersion of palladium and formation of PdO particles in NaY. An application of high precision TPR 189
Palladium-aluminium
Effect of high-temperature reduction on carburization of alumina-supported palladium: evidence for palladium-aluminium alloy formation 267
Palladium/carbon
Effect of Pd/C dispersion on its catalytic properties in acetylene and vinylacetylene hydrogenation 277
Pentene isomerization
Stabilized magnesia: a novel catalyst (support) material 79
Phenanthrene
Catalytic hydroprocessing of simulated coal tars. I. activity of a sulphided Ni-Mo/Al_2O_3 catalyst for the hydroconversion of model compounds 91
Pore structure
Coking and dactivation of zeolites - a Review 1
Propene synthesis
Determination of framework concentrations of gallium in Ga-ZSM-5 177

Regeneration
Oxidative redispersion of palladium and formation of PdO particles in NaY. An application of high precision TPR 189
Regeneration
Para-selectivity of dialkylbenzens over modified HZSM-5 by vapour phase deposition of silica 257
Regeneration
Effect of high-temperature reduction on carburization of alumina-supported palladium: evidence for palladium-aluminium alloy formation 267

Selectivity (acrylic acid)
Effect of the composition of vanadium-titanium binary phosphate on catalytic performance in vapor-phase aldol condensation 29
Selectivity (aromatics)
Calculated equilibria for the alkene and alcohol aromatization processes 37

Selectivity (ethane, ethene)
Oxidative coupling of methane over thallium based silica supported catalysts 241
Selectivity (hydrocarbons, lower-)
Catalytic hydroprocessing of simulated coal tars. II. Effect of acid catalysts on the hydroconversion of model compounds on a sulphided Ni-Mo/Al_2O_3 catalyst 101
Selectivity (olefins, lower-)
Conversion of methanol to hydrocarbons over silica-alumina. Selective formation of lower olefins 139
Selectivity (*para*-)
Para-selectivity of dialkylbenzenes over modified HZSM-5 by vapour phase deposition of silica 257
Silica-alumina
Conversion of methanol to hydrocarbons over silica-alumina. Selective formation of lower olefins 139
Silicoaluminophosphate
^{129}Xe-NMR investigation of SAPO-37 L1
Sintering
Stability of passivated Raney copper catalysts during reduction before use 53
Sintering
Characterization of the standard nickel/silica catalyst EuroNi-1. I. Background, aims, organization and outline 59
Sintering
Stabilized magnesia: a novel catalyst (support) material 79
Sintering
Oxidative redispersion of palladium and formation of PdO particles in NaY. An application of high precision TPR 189
Sintering
Effect of high-temperature reduction on carburization of alumina-supported palladium: evidence for palladium-aluminium alloy formation 267
Stabilized magnesia
Stabilized magnesia: a novel catalyst (support) material 79
Steam cracking
Preparation and evaluation of catalysts for the production of ethylene via steam cracking. Effect of operating conditions on the performance of 12CaO/7Al_2O_3 catalyst 119
Syngas conversion
Stability of passivated Raney copper catalysts during reduction before use 53
Syngas conversion
Potassium promotion of Ni/Al_2O_3 catalysts 159

Thallium oxide/silica
Oxidative coupling of methane over thallium based silica supported catalysts 241

Vanadium-titanium
Effect of the composition of vanadium-titanium binary phosphate on catalytic performance in vapor-phase aldol condensation 29
Vinylacetylene hydrogenation
Effect of Pd/C dispersion on its catalytic properties in acetylene and vinylacetylene hydrogenation 277

Zeolites
Coking and deactivation of zeolites - a Review 1
Zeolites
Calculated equilibria for the alkene and alcohol aromatization processes 37
Zeolites
Catalytic hydroprocessing of simulated coal tars. II. Effect of acid catalysts on the hydroconversion of model compounds on a sulphided Ni-Mo/Al_2O_3 catalyst 101
Zeolites
Conversion of methanol to hydrocarbons over silica-alumina. Selective formation of lower olefins 139
Zeolites
Determination of framework concentrations of gallium in [Ga]-ZSM-5 177
Zeolites
Oxidative redispersion of palladium and formation of PdO particles in NaY. An application of high precision TPR 189
Zeolites
Para-selectivity of dialkylbenzenes over modified HZSM-5 by vapour phase deposition of silica 257
Zeolites
Coke deposits on H-ZSM-5 zeolite 289